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Mr. Anatoly Vortman
Primary Examiner
Art Unit 2835
U.S.P.T.O

p.1/3

Mar.14, 2005

Re. Application/Control Number: 10/603,854

Dear Mr. Anatoly Vortman:

Thank you for your office action dated Jan.6/2005.
In order to prepare the proper reply to it, I am writing to be advised if I adequately understand your action shown in your action notice.
As to Claim 2, in your page 4, line 4, you told that "Claim 2 provides for the method /process, it is unclear what method /process Applicant is intending to encompass. A claim is indefinite where it merely recites a process without any active, positive steps delimiting how this process is actually practiced"

Does " the active and positive steps delimiting how this process is actually practiced" mean actual manufacturing of this invented fuse ?

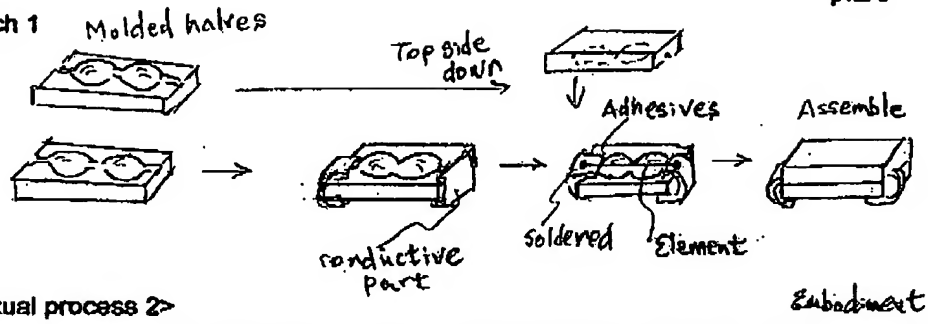
I believe that one of the key components in this invention exists in preparing the electrically insulated tube with concave inner wall. I therefore, intend to describe more emphasizing how this tube can be prepared by the way of the industry.

<Actual process 1>

In the preferable embodiment 1, the electrically insulated tube is comprised two halves of the tubes. The material can be selected from polymeric materials, ceramics or glass fiber reinforced materials or something depending upon the fuse's rating. The tooling for molding them was required to form the configuration of the halves of the tube respectively.

As the next step and two terminals are assembled and fuse element is soldered between the terminals.
Thereafter two halves of the tube is assembled into one applying the proper adhesives on the surfaces of the half individually. Please refer the following sketch 1.

Sketch 1




<Actual process 2> Embodiment 1

In the **preferable embodiment 1 and 2,** the electrically insulated tube is a tube, the both ends are open. For the embodiment 1 the tube has the bell mouths while for embodiment 2 the tube is straight. Please refer the sketch 2.

The material of this tube can be glass, glass fibre reinforced epoxy, plymeric materials or ceramics.

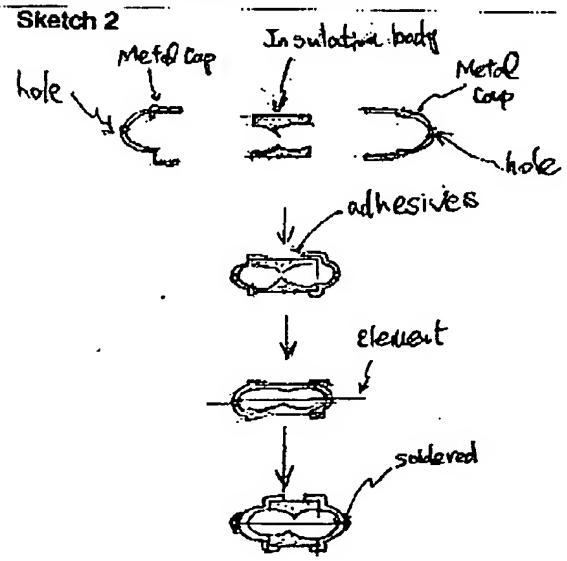
This embodiment 1 and 2 provide the caps at the end of the fuse which have the concave inner wall as shown in the drawing.

This cap is made from the electrically conductive material like copper or brass and works as the terminal.

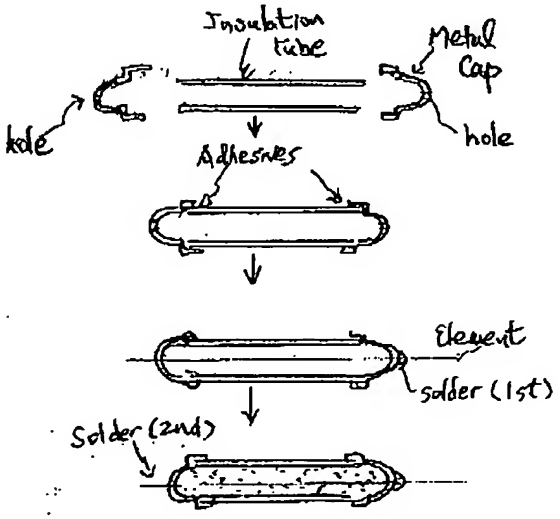
This cap is punched out from the metal sheet in the press works or cut out from a metal bar by the lathe work.

The caps are combined with the tube applying adhesives at the tube ends. Thereafter element is passed through between the caps and soldered. In some case the filler material is fed into the space while another end is not soldered yet. And all the steps are completed after the last end is soldered.

Sketch 2




Embodiment 1




Embodiment 2

I would be advised if these steps shall be summarized and described in the claim 2, will it be considered that I adequately understand your Office action?

Tadashi Umeda

Tadashi Umeda
Applicant & Inventor